Ekofluid®

Transformer oil purification equipment

The essentials, done right

The essential process, nothing more

Vacuum drying, degassing, and filtration to 0,5 µm, in a single pass. The core purification job and nothing beyond it. ECOIL does the essential process that mineral transformer oil needs and leaves the configuration depth to the platform lines, which is what keeps it simple to buy and simple to run.

One panel, no training

Run from a single control panel with clear indicator lights. An operator learns the unit in minutes, with no specialist control system to set up or manage. The same straightforward operation on every model in the line, so a crew that knows one ECOIL knows them all.

Relay logic, nothing to crash

Hard-wired relay control, not software. There are fewer things to go wrong, nothing to update, and no screen to navigate, and the unit starts the same way every time. Built to run a routine purification job reliably, year after year, with minimal attention.

Fixed configuration

Three defined models, with no options matrix and no configuration step. You choose by the oil volume you need to purify, and the unit ships as a standard build. Simple to specify and simple to order, because the engineering decisions are already made and held as stock.

Available from stock

A standard build with a short lead time. Ordered and delivered ready to run, not engineered to a project, so there is no long wait for a customized build. When you know the volume, the matching model is on the shelf and goes straight to work where it is needed.

Built to last

Black steel, fully welded, dual-coated and baked, on a strong frame with protective enclosures for industrial and outdoor sites. Simple to run and simple to maintain, built for years of routine service. The same Ekofluid build quality that goes into every machine in the range.

Vacuum dehydration

Moisture and dissolved gases are pulled out of the oil under vacuum in a single pass. Esters aside, mineral transformer oil takes up water over years of service, and removing it is what restores dielectric strength. The core of the purification job, done the same way on every unit in the line.

Fine filtration to 0,5 µm

Solid particles are filtered out down to 0,5 µm as the oil passes through. Inlet and outlet share one cartridge type, so a single spare covers the unit, and the casings unscrew by hand for a change in minutes. Clean oil, with no specialist procedure to run.

Indirect heating

The oil is warmed by indirect heating at low surface load, so drying is efficient and the oil is never exposed to a hot surface. No local overheating, no thermal stress, no oil degradation. The heating is sized to the model and runs without operator attention.

Compact footprint

Each unit is built to take up little space in a substation, a workshop, or a service vehicle. The frame is sized to install and run in tight areas while keeping full access to the service points and connections. Small enough to move, complete enough to do the whole job.

ECOIL 2000

Transformer oil purification plant

The compact unit in the line. At 2 000 l/h it is the smallest and most portable build, sized for workshops, substations, and on-site service at lower volumes. Vacuum drying, degassing, and filtration to 0,5 µm happen in a single pass, run from a single control panel an operator learns in minutes. Shipped from stock as a fixed configuration, it goes straight to work without a configuration step. The unit for distribution transformers and smaller assets where the essential purification job needs doing simply.

Max. oil flow
2 000 l/h

Fine filter
0,5 µm

Heating capacity
36 kW

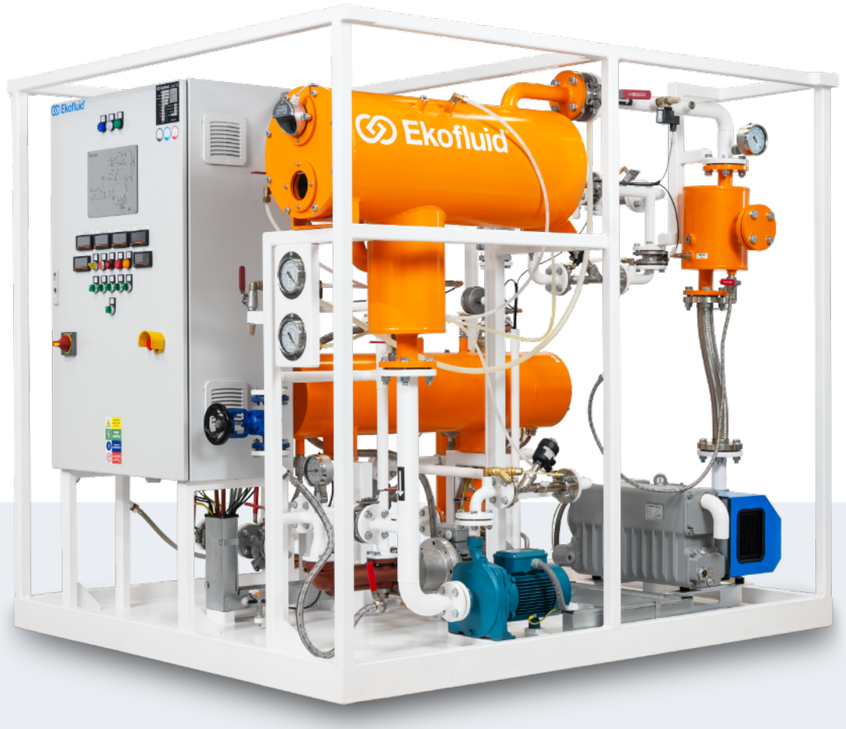
Vacuum capacity
200 m³/h

Ultimate vacuum
< 1 mbar

Max capability water
< 5 ppm

Max. capability gas
< 0,3 %

Max. performance
> 85 kV



ECOIL 5000

Transformer oil purification plant

The mid-range unit in the line. At 5 000 l/h it handles regular purification across substations, industrial sites, and service fleets, and stays simple to run and move between jobs. Vacuum drying, degassing, and filtration to 0,5 µm in a single pass, from the same single control panel and the same fixed, from-stock build as the rest of the line. The balanced middle of the line, for contractors who run the same purification job repeatedly on a known fleet and want it ordered, not engineered.

Max. oil flow
5 000 l/h

Fine filter
0,5 µm

Heating capacity
72 kW

Vacuum capacity
300 m³/h

Ultimate vacuum
< 1 mbar

Max capability water
< 5 ppm

Max. capability gas
< 0,3 %

Max. performance
> 85 kV

ECOIL 8000

Transformer oil purification plant

The high-volume unit in the line. At 8 000 l/h it is the largest build, for high-volume purification and larger transformers where consistent processing is the job. Vacuum drying, degassing, and filtration to 0,5 µm in a single pass, run from the same single control panel as the rest of the line and shipped from stock as a fixed configuration. Relay control keeps operation the same as the smaller units. The top of the ECOIL line, for service programmes that process big oil volumes on a predictable, repeatable job.

Max. oil flow **8 000 l/h**	Fine filter **0,5 µm**	Heating capacity **108 kW**	Vacuum capacity **600 m³/h**
Ultimate vacuum **< 1 mbar**	Max capability water **< 5 ppm**	Max. capability gas **< 0,3 %**	Max. performance **> 85 kV**

Proof, in numbers

Thirty years of building, installing, and supporting fluid processing systems, counted the only way that matters. The numbers below are not targets. They are the record.

30+
years

Three decades of vacuum and adsorption engineering, applied to transformer oil treatment and regeneration, and refined on every unit built since 1996.

70+
countries

Installations across six continents, with service crews and spare parts reaching transformers wherever they run.

500+
systems delivered

In daily operation with utilities, contractors, and service companies, treating the oil that keeps transformers in service.

99%
customer retention

Build quality, configuration, and lifetime support that keep customers across relationships measured in decades, not orders.

Ordered from stock, built to last

Available from stock

Three fixed configurations held as standard builds, ordered not engineered to a project. There is no options matrix and no engineering phase, so lead times are short and procurement is simple. You pick the model that matches your volume and it ships ready to run. The straightforward route to oil back in specification.

Simple to run, simple to keep running

One clear control panel with indicator lights, learned in minutes, with no specialist control system to manage. Hard-wired relay control means fewer things to go wrong and nothing to update. Predictable build and low training overhead keep a service programme moving.

Built in-house, supported for life

Designed, built, wired, and tested in-house, with the same Ekofluid build quality that goes into every machine in the range. Black steel, fully welded, dual-coated and baked. Technical assistance and spare parts come from the same people who built the unit, and the machine is supported for as long as it works.

Ekofluid®

Expert in transformer oil

Ekofluid GmbH
Mariahilfer Straße 36,
1070 Vienna, Austria

www.ekofluid.com
sales@ekofluid.com